

into the wood in the middle of a dry day without being wetted through. Added to all this is the quantity of fallen branches, sticks and whole trunks of trees, which rot upon the ground, and the inside of which is frequently already converted into rich earth, even if their outer bark has been preserved as a thin and light fragile crust. Thus the outer conditions requisite for the growth and origin of the fungi (heat, moisture, and abundance of decaying organic substances) are always present in the tropical woods; and indeed we find these woods decorated with manifold forms of fungi throughout the whole year, without its being possible to observe at any particular time a more frequent occurrence, as in the autumn of the temperate zones. Even the individual species are limited to no time, and the occurrence of the same species is uninterruptedly continued. On the other hand, the fungi are not found in the tropics in such groups; they are less sociable than in our climate, where in autumn they principally enliven the woods. They here occur more scattered and isolated, although found at every period of the year; and it is the parasitic *Polypori*, which are especially numerous on the branches of the trees, that delight the eye by their brilliant colours. In central Europe the *Agarici terrestres* prevail, and determine the physiognomy of an autumnal wood.

[To be continued.]

PROCEEDINGS OF LEARNED SOCIETIES.

ZOOLOGICAL SOCIETY.

May 13, 1845.—William Yarrell, Esq., Vice-President, in the Chair.

“Descriptions of new species of Land Shells, from the collection of Hugh Cuming, Esq.,” by Dr. Louis Pfeiffer:—

1. *HELIX GRANDIS*, Pfr. *Hel. testá imperforatá, globoso-turbinatá, solidá, ponderosá, striatá, nigricanti-rufá, epidermide griseo-fuscescente fasciatim obductá; spirá conicá, apice pallidá; anfractibus 6 vix convexiusculis, ultimo spirá brevior, basi inflato, fortius striato; columellá verticali, brevi, subtortá; aperturá latè lunari, intus margaritacé; peristomate nigricante, latè expanso, margine basali incrassato, reflexo, cum columellari valde dilatato, albido angulum obtusum formante.*

Diam. 68; alt. 58 mill.

Found at Bangui, province of North Ilocos, island of Luzon, by H. Cuming, Esq.

2. *HELIX GMELINIANA*, Pfr. *Hel. testá imperforatá, globoso-depressá, solidá, irregulariter rugoso-malleatá, carinatá, nitidá, pallidè viridi, ad suturam et infra carinam albo-cingulatá; spirá subelevatá, apice obtusá, albidá; anfractibus 4½ vix convexiusculis, sensim accrescentibus, ultimo non descendente, basi planiusculá; aperturæ angulato-lunari; peristomate subincrassato, margine supero breviter expanso, antrorsum arcuato, basali reflexo, columellari declivi, dilatato, albo-callosa.*

Diam. 23; alt. 13 mill.

Found at Bayambong, island of Luzon, by H. Cuming, Esq.

3. *HELIX LINNÆANA*, Pfr. *Hel. testâ umbilicatâ, depressâ, utrinque convexiusculâ, acutè carinatâ, pallidè fulvâ, supernè rugoso-mulleatâ, basi minutè et obliquè rugulosâ; anfractibus 5½ lentè accrescentibus, planulatis, ultimo basi subinflato, anticè vix descendente; umbilico majusculo, cylindrico; aperturâ angulato-lunari, ad carinam canaliculatâ; peristomate incrassato, carneo, marginibus callo junctis, supero brevi, expanso, basali arcuato, reflexo, columellari breviter descendente, subdilatatâ.*

Diam. 62; alt. 28 mill.

Locality unknown. Mus. Cuming.

4. *HELIX CHEMNITZIANA*, Pfr. *Hel. testâ imperforatâ, depressâ, solidâ, supernè radiatim plicato-mulleatâ, undique granulosâ, sub epidermide olivaceo-rufâ, acutè carinatâ; spirâ subelevatâ, obtusâ; anfractibus 5 planis, ultimo basi convexo; aperturâ subtriangulâri, intus nitidâ, carnâ; peristomate carneo, margine supero subexpanso, basali reflexo, dente unico valido instructo, columellari stricto, dilatato, adpresso, inæqualiter pluridentato.*

Diam. 57; alt. 26 mill.

Locality unknown. Mus. Cuming.

5. *HELIX BAINBRIDGII*, Pfr. *Hel. testâ umbilicatâ, depressâ, subdiscoideâ, solidâ, striatâ, undique granulatâ, cinnamomeâ, basi pallidâ; spirâ vix elevatâ, obtusâ; anfractibus 5½ planis, ultimo rotundato, basi vix convexo; aperturâ perobliquâ, lunato-subtriangulâri, intus nitidâ, carnâ; peristomate subincrassato, carneo, marginibus callo junctis, supero latè expanso, basali reflexo, dente unico, valido, complanato instructâ, columellari perdidatato, umbilicum mediocrem semi-occultante.*

Diam. 64; alt. 26 mill.

Found at Demerara by Mr. Bainbridge. Mus. Cuming.

6. *HELIX MARTINIANA*, Pfr. *Hel. testâ obtestè perforatâ, discoideâ, acutè carinatâ, solidâ, striatâ et minutissimè granulatâ, olivaceofuscâ; spirâ depressâ; anfractibus 5 planulatis, ultimo non descendente, basi inflato, anticè profundè scrobiculato; aperturâ depressâ, latè angulato-lunari, intus lacteâ; peristomate albo, incrassato, marginibus callo tenui junctis, supero expanso, basali reflexo, dentibus 2 conjunctis, columellari dilatato, dentibus 2 inæqualibus armato.*

Diam. 34; alt. 14 mill.

From the island of Jamaica. Mus. Cuming.

7. *HELIX SCHROETERIANA*, Pfr. *Hel. testâ umbilicatâ, depressâ, lenticulari, acutè carinatâ, solidâ, obsolete granulatâ, luteolâ, utrinque rufo-luteofasciatâ; spirâ subelevatâ; anfractibus 5 planulatis, ultimo anticè deflexo, basi inflato, anticè profundè scrobiculato; aperturâ subhorizontali, ellipticâ; peristomate incrassato, latè expanso, reflexo, fusco-carneo, marginibus callo junctis, supero leviter arcuato, basali dilatato, umbilicum angustum semitegente, intus 3-4-dentato; dentibus 2 majoribus basi junctis, 1-2 minoribus propè columellam.*

Diam. 31 ; alt. 14 mill.

From the island of Jamaica ; Mr. P. Gosset. Mus. Cuming.

Intermediate between *H. tridentina*, Fér., and *H. Martiniana*, Pfr. The position of the teeth is the same, but from the former it is at once to be distinguished by the sharp keel, from the latter by the deflexion of the last whorl.

8. *HELIX BRUGUIERIANA*, Pfr. *Hel. testâ imperforatâ, turbinato-globosâ, solidâ, nigro-castaneâ, epidermide hydrophanâ, fuscâ strigatâ, sursum pullescente obductâ ; spirâ conoideâ, apice obtusâ, purpureâ, nitidâ ; anfractibus 5 convexiusculis, ultimo non descendente, basi vix convexo, denudato ; columellâ intrantem, obliquâ, strictiusculâ, planatâ, albâ ; aperturâ lunato-ovali, intus lacteâ ; peristomate simplice, brevissimè reflexiusculo, intus nigro-marginato.*

Diam. 29 ; alt. 24 mill.

Collected on the island of Tablas by H. Cuming, Esq.

9. *BULIMUS GILVUS*, Sow. *Bul. testâ imperforatâ, ovatâ, solidulâ, striatâ, sub epidermide gilvâ rufescens ; spirâ apice obtusâ, nudâ, pallidâ ; anfractibus 6 convexis, ultimo spirâ paulò breviorè ; columellâ strictiusculâ, albâ, subexcavatâ ; aperturâ obliquâ, lunato-ovali, intus lacteâ ; peristomate subincrassato, breviter reflexo, margine dextro arcuato, columellari adpresso.*

Long. 54 ; diam. 38 mill.

Collected in several varieties on the island of Bohol, by H. Cuming, Esq.

GEOMELANIA, nov. gen.

Testa imperforata, turrata ; apertura integra, effusa ; peristoma simplex, reflexum, ad basin appendiculo porrecto instructum.

10. *GEOMELANIA JAMAICENSIS*, Pfr. *Geom. testâ truncatâ, turratâ, arcuatim costatâ, nitidâ, albâ ; anfractibus 6 convexis, ultimo $\frac{1}{3}$ longitudinis subæquante ; aperturâ ovali, intus nitidâ ; peristomate simplice, margine dextro sinuoso, basi in appendiculum linguiformem porrecto, columellari adpresso.*

Long. 12 ; diam. 4 mill.

Found at Jamaica, "Savanah la Mar," under stones in earth, by M. Attanasio. Mus. Cuming.

11. *TOMOGERES TURBINATUS*, Pfr. *Tom. testâ rimatâ, compresso-turbinatâ, tenui, levissimè striatulâ, pallidè cornèâ, nitidulâ ; spirâ turbinatâ, acutiusculâ ; anfractibus 5 convexis, ultimo spiram vix æquante, à latere compresso, basi subangulato, anticè adscendente, subtùs constricto, serobiculato ; aperturâ verticali, subauriformi, ferè clausâ ; peristomate latè expanso, tenui, margine dextro arcuato, internè laminâ validâ, superuè bifidâ, munito, basali obliquè descendente, tridentato ; pariete aperturali lamellis 3 inæqualibus armato.*

Diam. maj. 11, min. $7\frac{1}{2}$; alt. 10 mill.

Hab. In Brasiliâ.

This interesting shell is nearly allied with *Tomogeres clausus*, Spix,

but easily to be distinguished by the substance of its shell, by the raised spire and the thin peristome, characters quite constant in all specimens known.

May 27.—William Yarrell, Esq., Vice-President, in the Chair.

Mr. Gould exhibited to the Meeting four new species of Birds from Australia, which he characterized as follows:—

ARDEA (HERODIAS) PICATA. *Ard. capite superiore, occipite, plumis occipitalibus, corpore superiore, caudâ, alisque cæruleo-nigris; mento, nuchâ, pectore, et quibusdam plumis a pectore dependentibus albis.*

Upper part of the head, occiput, occipital plumes, the whole of the plumage of the body, wings and tail bluish slaty black; chin, neck, chest and some of the lanceolate feathers dependent therefrom white; some few of the lanceolate feathers on the neck and breast have one web white and the other web bluish slaty black; the remainder of these lanceolate feathers are the same colour as the body; irides yellow; bill, legs and feet greenish yellow. In young specimens the whole of the under surface is white.

Total length, 17 inches; bill, $3\frac{1}{4}$; wing, 10; tail, $3\frac{1}{2}$; tarsi, $3\frac{1}{4}$.

Hab. Port Essington.

COLLURICINCLA PARVULA. *Col. corpore superiore, caudâ, alisque olivaceo-brunneis; subtus pallidè cervinâ; medio plumarum gulæ et pectoris vittâ latâ brunneâ ornato.*

All the upper surface, wings and tail olive-brown; a faint line over the eye and the chin white; all the under surface pale buff, the feathers of the throat and breast with a broad stripe of brown down the centre; irides dark brownish red; bill blackish grey; tarsi bluish grey.

Total length, 7 inches; bill, 1; wing, 4; tail, $3\frac{1}{4}$; tarsi, 1.

Hab. Port Essington.

This is the smallest species of the genus yet discovered.

MELITHREPTUS MELANOCEPHALUS. *Mel. toto capite, gulâ, et maculâ semilunari apud latera pectoris saturatè nigris; corpore superne flavo-olivaceo pectore albo.*

The whole of the head and throat, and a semilunar mark on either side of the chest, deep glossy black; all the upper surface yellowish olive, becoming brighter on the rump; wings and tail brownish grey, with lighter margins; breast white; remainder of the under surface greyish white; bill black; irides reddish brown; feet brown; bare skin over the eye pearly white, slightly tinged with green.

Total length, $5\frac{1}{4}$ inches; bill, $\frac{9}{16}$; wing, 3; tail, $2\frac{5}{8}$; tarsi, $\frac{3}{4}$.

Hab. Van Diemen's Land.

HEMIPODIUS SCINTILLANS. *Hem. corpore superne pallidè castaneo, singulis plumis fasciis latis brunneo-nigris ornatis; marginibus plumarum cinereis; intra margines lineis angustis nigris et albis ornatis; tectricibus alarum et tertiariis pallidè castaneo-rubris balteis irregularibus ziczac fasciatis; interspatiis balteorum cinereo-albis; mento genisque albis maculâ semilunari brunneâ ad*

apicem singulæ plumæ; pectore et corpore inferiore pallidè cervino-albis; plumis pectoris ordine macularum saturatè grisearum ad marginem ornatis.

Upper surface light chestnut-red, all the feathers crossed by broad bars of brownish black and margined with grey, within which are two narrow lines of black and white; wing-coverts and tertiaries light chestnut-red, crossed by irregular zigzag bars of black, the interspaces margined externally with greyish white; chin and sides of the face white, with a narrow crescent-shaped mark of brown at the tip of each feather; sides of the breast chestnut, each feather tipped with white, within which is an indistinct mark of deep black; chest and under surface pale buffy white, the feathers of the chest with a row of dark grey spots on each margin, giving that part a speckled appearance; primaries brown, narrowly edged with white; irides reddish orange; feet yellow; bill horn-colour.

Total length, male, 5 inches; bill, $\frac{1\frac{1}{8}}$; wing, $3\frac{1}{4}$; tarsi, $\frac{1\frac{1}{8}}$. Female, 6 inches; bill, $\frac{3}{4}$; wing, $3\frac{1}{2}$; tarsi, $\frac{3}{4}$.

Hab. Houtmann's Abrolhos, off the western coast of Australia.

Remark.—Like the rest of the genus, the male is much inferior in size to the female. The species is very nearly allied to, but much smaller than, *Hemipodius varius*.

“Description of twenty-two new species of Land-Shells, belonging to the collection of Mr. H. Cuming,” by Dr. L. Pfeiffer:—

1. *HELIX GRUNERI*, Pfr. *Hel. testá umbilicatá, depressá, supernè planiusculá, minutissimè punctato-striatá, rufá; anfractibus* $5\frac{1}{2}$ *sensim crescentibus, planiusculis, último rotundato, anticè vix deflexo; umbilico angusto, pervio; aperturá subverticali, depressá, latè lunari; peristomate incrassato, reflexo, marginibus callo tenui, supernè dentem arcuatum, validum, callosum formante junctis.*

Diam. 38, alt. 18 mill.

Locality unknown. A beautiful shell, next allied to *H. unguicula*, De Férussac, differing by the strong and arcuated tooth on the body of the penultimate whorl.

2. *HELIX OKENIANA*, Pfr. *Hel. testá imperforatá, orbiculari, utrinque convexiusculá, obtusè carinatá, undique regulariter granulatá, supernè fuscá, basi pallidá; anfractibus* $5\frac{1}{2}$ *rotundato-planatis, último anticè deflexo, basi profundè bisorbiculato; aperturá subhorizontali, ellipticá, coarctatá; peristomate carneo-fusco, incrassato, marginibus callo junctis, supero expanso, basali reflexo, tridentato; dentibus æquidistantibus, 2 minoribus prope columellam, tertio majore supernè sulcato.*

Diam. 37, alt. 17 mill.

Found on the island of Jamaica at Savannah la Mar, by M. Attanasio. To be distinguished from *H. lucerna*, Müll., by having three teeth at the basal margin of the aperture.

3. *HELIX NEOGRANATENSIS*, Pfr. *Hel. testá imperforatá, depressá, carinatá, tenui, undique minutè granulósá, saturatè rufá; spirá vix elevatá; anfractibus* $4\frac{1}{2}$ *planiusculis, último basi convexo, an-*

ticè deflexo, constricto; aperturá perobliquá, lunato-rotundatá; peristomate carneo, simplice, expanso, reflexiusculo, marginibus callo tenui junctis, basali obsoletissimè unidentato, columellari brevi, dilatato, adpresso.

Diam. 34, alt. 15 mill.

Found in the mountain Quendeu at New Granada.

4. *HELIX CINERASCENS*, Pfr. *Hel. testá imperforatá, globoso-turbinatá, tenuiusculá, straminéa, fasciis 2 latis et arcu basali nigricantibus ornatá, epidermide tenui, hydrophaná, cineréa, obductá; spirá breviter turbinatá, apice obtusá; anfractibus 5½ convexiusculis, ultimo basi inflato; columellá subarcuatá, carneo-fusá; aperturá rotundato-lunari, intus albá; peristomate breviter expanso, subincrassato, castaneo-limbato.*

Diam. 41, alt. 37 mill.

Found by H. Cuming, Esq. at the island of Masbate.

5. *HELIX TURBO*, Pfr. *Hel. testá imperforatá, turbinatá, solidiusculá, distinctè striatá, sub epidermide tenuissimá, deciduá, flavescente albá, medio rufo-fasciatá; spirá brevi, conoidéa, obtusá; anfractibus 5 convexis, ultimo obsoletè angulato, basi vix convexo; columellá strictá, dilatatá, albidá; aperturá irregulariter lunari; peristomate expanso, marginé columellari dilatato, reflexo, rimam formante, cum basali angulatum juncto.*

Diam. 43, alt. 35 mill.

Hab. Isle of Mindoro.

6. *HELIX UNICOLOR*, Pfr. *Hel. testá umbilicatá, depressá, acutè carinatá, tenui, fusá, supernè subtiliter striatá, subtús lineis nonnullis spiralibus elevatis munitá; spirá depresso-conoidéa; anfractibus 5 planiusculis, sensim accrescentibus, ultimo anticè non descendente, basi convexo, ad umbilicum angustum abruptè angulato; aperturá rhomboidéa; peristomate saturatè fusco, marginibus callo tenuissimo junctis, supero dilatato, expanso, basali ascendente, stricto, columellari brevi, dilatato, umbilicum semi-occultante, cum basali angulatum juncto.*

Diam. 32, alt. 16 mill.

Locality unknown. Constantly distinguished from *H. Xystera*, Valenc., by its narrow umbilicus, elevated spire, and the number of its whorls.

7. *HELIX OMPHALODES*, Pfr. *Hel. testá latè umbilicatá, depressá, solidá, leviter striatula, sub epidermide flavescente, deciduá albá, ad peripheriam et suturam rufo-cingulatá; spirá vix convexá; anfractibus 5 planiusculis, ultimo anticè vix descendente, basi paulò convexiore, circa umbilicum magnum, spiralem, intus castaneum subcompresso; aperturá perobliquá, lunato-ovali; peristomate breviter reflexo, fusco, marginibus conniventibus.*

Diam. 41, alt. 16 mill.

Locality unknown.

8. *HELIX INVOLUTA*, Pfr. *Hel. testá imperforatá, depressá, supernè convexiusculá, basi planiusculá, medio impressá, tenuissimá,*
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striatula, nitidissima, cornea, fusco-radiata; anfractibus planè involutis, ultimo anticè obliquè depresso; aperturà depressà, lunato-oblongà; peristomate simplice, recto, marginibus utrinque centro testæ insertis, dextro antrorsum arcuato-dilatato.

Diam. 18, alt. $7\frac{1}{2}$ mill.

Found on the mountains of Quendeu in New Granada.

9. *HELIX CAMPANULA*, Pfr. *Hel. testà umbilicatà, globosà, solidà, subtiliter et regulariter obliquè striatà, castaneà; spirà semiglobosà, apice obtuso, pallido; anfractibus $4\frac{1}{2}$ convexiusculis, ultimo antecedente vix latiore, anticè vix descendente, medio pallidè cingulato; aperturà perobliquà, lunato-ovali, intus livescente; peristomate fusco, subincrassato, breviter reflexo, marginibus callo junctis, basali introrsum obsoletè albo-unidentato, extrorsum dilatato, umbilicum angustum, profundum semi-occultante.*

Diam. 27, alt. 21 mill.

Locality unknown.

10. *HELIX LABIATA*, Pfr. *Hel. testà apertè perforatà, depressà, tenui, striatula, supernè lineis concentricis obsoletè decussatà, basi lævigatà, nitidà, fulvâ; spirà planiusculà; anfractibus 6 subplanulatis, ultimo dilatato, depresso; aperturà latè lunari; peristomate acuto, intus calloso-labiato, margine supero antrorsum rotundato, basali planè arcuato, columellari vix reflexiusculà.*

Diam. 40, alt. 20 mill.

Locality unknown. Distinguished from *H. citrina*, Linn., by the concentrical striæ, the number of its whorls, and the callus within the aperture.

11. *HELIX HANLEYI*, Pfr. *Hel. testà imperforatà, depressà, lenticulari, acutè carinatà, tenui, subtilissimè decussatà, nitidà, sulphureà, ad suturam et carinam albo-fasciatà; spirà parùm elevatà; anfractibus 4 subplanulatis, ultimo anticè angulatim deflexo, constricto; aperturà parvulà, horizontali, oblongà; peristomate simplice, undique expanso et reflexo, marginibus ferè contiguis.*

Diam. 19, alt. 9 mill.

β. *Testà supernè nigricanti-purpureà, ad aperturam albo-fasciatà, basi albidà, infra carinam castaueo-fasciatà.*

Found by Mr. Cuming at Sinit, island of Luzon. This fine shell is not unlike some varieties of the *Hel. bifasciata*, Lea, but constantly to be distinguished from that species by the angular deflection of its last whorl and by the shape of its small aperture.

12. *HELIX AMENA*, Pfr. *Hel. testà imperforatà, globoso-depressà, lineis longitudinalibus et spiralibus sub lente decussatà, albidà, fascià unicà spadiceà supra peripheriam et lineà rufâ, suturali ornatà; anfractibus 4 vix convexiusculis, ultimo obsoletè angulato, anticè deflexo, basi parùm convexà; aperturà transversè lunari-oblongà, intus concolore; peristomate simplice, marginibus subparallelis, dextro expanso, basali anticè reflexo, ad columellam dilatato, adpressè reflexo.*

Diam. 18, alt. $10\frac{1}{2}$ mill.

Found by Mr. Cuming at Catanauan, island of Luzon. This spe-

cies is likewise similar to several unkeeled varieties of *Hel. bifasciata*, but by examining a large number of specimens of this and the other ones, I found the above characters to be invariably constant.

13. *HELIX METCALFII*, Pfr. *Hel. testá latè umbilicatá, depressá, discoideá, acutè carinatá, striatá, pallidè vel rufescenti-corné, utrinque juxta carinam albam castaneo-unifasciatá; spirá vix elevatá; anfractibus 6 vix convexiusculis, ultimo anticè vix descendente; aperturá subtriangulari; peristomate simplice, margine supero antrorsum arcuatim dilatato, depresso, basali ad columellam leviter arcuato.*

Diam. 21, alt. 7 mill.

β . *Minor, flavida, lineis angustis nigricanti-rufis juxta carinam.* Diam. 17, alt. $5\frac{1}{2}$ mill.

γ . *Unicolor, fusco-cornea.* Diam. 15, alt. 5 mill.

Found by Mr. Cuming on the Philippine Islands and at Sibonga, island of Zebu; β . at Tanhay, island of Negros; γ . on the island of Siquijor. Distinguished from all species belonging to the same group by its flattened shape.

14. *HELIX TRISTIS*, Pfr. *Hel. testá imperforatá, ovato-globosá, tenui, striatá, lineis concentricis obsolete decussatá, olivaceo-fuscá, rufo 5-fasciatá; spirá parvulá, conoideá; anfractibus 4 convexiusculis, ultimo inflato; aperturá lunato-ovalí, intus nitidá; peristomate simplice, recto, margine columellari dilatato, reflexo, adpresso.*

Diam. 21, alt. 18 mill.

This species is said to be found in Sicily, but there may be a mistake.

15. *HELIX ADAMSI*, Pfr. *Hel. testá imperforatá, orbiculato-convexiusculá, leviter striatá, nitidissimá, fulvescenti-luteá, unicolore vel fasciis saturatè fulvis et castaneis multimodè ornatá et radiatá; spirá convexiusculá, obtusá; anfractibus $3\frac{1}{2}$ —4 vix convexiusculis, ultimo basi planiore; aperturá rotundato-lunari; peristomate simplice, acuto, margine columellari subobliquo, dilatato, albo.*

Diam. 12, alt. $6\frac{1}{2}$ mill.

Hab. Pitcairn's Island and Opara. Collected by Mr. Cuming.

The late patriarch of the island pointed out this shell to Mr. Cuming, and at his request I have the pleasure to dedicate it to the venerable man's memory.

16. *HELIX BAHAMENSIS*, Pfr. *Hel. testá angustè umbilicatá, depressá, tenui, corné, costulato-striatá; spirá breví, convexiusculá; anfractibus $4\frac{1}{2}$ vix convexiusculis, ultimo anticè deflexo; aperturá subhorizontali, transversè ovali; peristomate simplice, tenui, marginibus approximatis, supero breviter expanso, basali reflexo, intus dente triangulari, valido munito, columellari dilatato, reflexo, umbilicum angustum, pervium semitegente.*

Diam. 17, alt. $7\frac{1}{2}$ mill.

Hab. Bahamas.

17. *HELIX BERMUDENSIS*, Pfr. *Hel. testá umbilicatá, lenticulari,*

tenuiusculá, carinatá, leviter ruguloso-striatá, pallidè fulvescente, cingulo castaneo supra et lutiore infra carinam ornatá; anfractibus 7 vix convexiusculis, lentè accrescentibus; umbilico angusto, pervio; aperturá subtrapeziá; peristomate simplice, recto, margine columellari verticali, brevi, reflexiusculo, cum basali angulum rectum formante.

Diam. 19, alt. $10\frac{1}{2}$ mill.

Hab. Bermuda.

18. *HELIX PENNANTIANA*, Pfr. *Hel. testá angustè umbilicatá, orbiculato-conoideá, acutè carinatá, tenui, striatulá, irregulariter et leviter malleatá, unicolore carneá, apice rufescente; anfractibus $5\frac{1}{2}$ vix convexiusculis, ultimo anticè vix descendente, basi planiusculo; aperturá perobliquá, angulato-lunari, intus albá; peristomate roseo, latè expanso, margine basali reflexo, columellari brevi, strictiusculo, dilatato, umbilicum ferè tegente.*

Diam. 37, alt. 20 mill.

Hab. Philippine Islands?

Nearly allied to *H. labium*, Fér., from which it may easily be distinguished by its sharp keel and sculpture.

19. *BULIMUS LEOPARDUS*, Pfr. *Bul. testá imperforatá, ovatá, solidiusculá, longitudinaliter confertim costulato-striatá, fulvá, strigis et maculis albidis epidermidis hydrophanæ eleganter variegatá; spirá brevi, conoideá, sursum pullescente; anfractibus 5 convexis, rapidè accrescentibus, ultimo spiram superante; columellá elongatá, introrsum acutá; aperturá uniplissimá, rotundato-ovali, intus albá; peristomate latè expanso, reflexiusculo, castaneo-limbato.*

Long. 47, diam. 30 mill.

Hab. Isle of Mindanao, Philippine Islands.

20. *BULIMUS EGREGIUS*, Pfr. *Bul. testá perforatá, fusiformi, solidulá, striis longitudinalibus confertis et lineis spiralibus remotioribus subdecussatá, nitidá, flammis castaneis pellucidis et fulvis, opacis egregiè pictá; unfractibus 6 vix convexiusculis, ultimo spiram turritam æquante, basi compresso; columellá subangulato-arcuatá; aperturá oblongá, utrinque acutá, intus lividá; peristomate vividè rubro, latè expanso, breviter reflexo, basi canaliculato, marginibus callo tenui junctis.*

Long. 41, diam. 15 mill.

Locality unknown. Distinguished from *B. goniostoma*, Sow., by its size, colouring and widely expanded peristome.

21. *BULIMUS CANALICULATUS*, Pfr. *Bul. testá umbilicatá, obliquè fusiformi, ruguloso-striatá, nitidá, albido, carneo et spadiceo marmoratá; spirá turrito-conicá, acutá; anfractibus 7 vix convexiusculis, ultimo spirá vix longiore, basi valdè constricto-carinato; columellá arcuatim antrorsum elongatá; aperturá ovali, basi canaliculatá; peristomate simplice, tenui, margine dextro vix expansiusculo, columellari dilatato, reflexo.*

Long. 37, diam. 14 mill.

Hab. Bolivia.

22. *BULIMUS CASTANEUS*, Pfr. *Bul. testá vix perforatá, ovato-*

acuminatá, solidiusculá, longitudinaliter confertim striatá, lineis spiralibus distantioribus decussatá, unicolore castaneá; spirá brevi, conicá, acutiusculá; anfractibus $4\frac{1}{2}$ vix convexiusculis, ultimo inflato, 2-3 longitudinis subæquante; columellá tenui, subsimplice; aperturá ovali, intus saturatè fuscá, nitidá; peristomate vix incrassato, brevissimè reflexo, marginibus callo tenui junctis, columellari vix dilatato.

Long. 70, diam. 39 mill.

Hab. Nova Granada; Vegas on the river Quendeu.

Nearly allied to *Bul. Gibbonius*, Lea; distinguished by its transverse striæ, closed umbilicus, peristome, etc.

“Description of a new species of *Amphipeplea*,” by Dr. L. Pfeiffer.

The shell I am describing belongs to the genus of freshwater shells distinguished by Nilsson from *Limnæus* under the name of *Amphipeplea*, and sufficiently characterized by the shape and habits of its animal, perfectly agreeing with our new species, according to Mr. Cuming's information, who first discovered it, and by whose name I am pleased to illustrate the species.

AMPHIPEPLEA CUMINGIANA, Pfr. *Amph. testá ovato-globosá, tenuissimá, longitudinaliter confertim striatá, nitidissimá, pellucidá, pallidè corneá; spirá brevissimá, mucronulatá, callo tenui semi-obtectá; columellá nullá; margine anfractuæ interno arcuato, appendice membranaceo (deciduo) munito; aperturá amplissimá, semi-ovali, margine supero breviter arcuato, patente.*

Long. 30, diam. 22 mill.; apertura 26 mill. longa.

Found at Naga, province of South Camerines, island of Luzon, by H. Cuming, Esq.

June 10.—Rev. John Barlow in the Chair.

“Descriptions of twenty-two new species of *Helix*, from the collections of Miss Saul, — Walton, Esq., and H. Cuming, Esq.,” by Dr. Louis Pfeiffer:—

1. *HELIX PACHYSTYLA*, Pfr. *Hel. testá imperforatá, globosá, solidá, ponderosá, striatá, lineis concentricis decussatá, albá, epidermide sordidè viridi, nigricanti-radiatá indutá; spirá brevi; anfractibus 5 celeriter accrescentibus, ultimo globoso, anticè breviter deflexo; columellá obliquá, dilatatá, callosá, albá, obsoletè et latè unidentatá; aperturá irregulariter lunato-rotundatá, intus lacteá; peristomate recto, intus subincrassato, margine basali reflexiusculo.*

Diam. 43, alt. 37 mill.

Locality, New Zealand.

Similar to *H. pomum*, Pfr., from which it may be distinguished by its transverse striæ, and by being quite imperforate. (Coll. Metcalfe.)

2. *HELIX EURYOMPHALA*, Pfr. *Hel. testá umbilicatá, orbiculato-convexá, tenui, pellucidá, virenti-corneá, supernè regulariter costulato-striatá, lineis concentricis obsoletè decussatá, basi remotius striatá, nitidissimá; spirá parùm elevatá, obtusá; anfractibus 6 convexiusculis, ultimo dilatato, subdepresso, anticè non descendente;*

umbilico magno, pervio; aperturá obliquè lunato-ovali, intus margaritacea; peristomate recto, simplice, marginibus conniventibus.

Diam. 37, alt. 17 mill.

Locality, Cuba.

To be distinguished from *H. laxata*, Fér., by the number of its whorls, forming a more elevated spire, by the last whorl not deflected and less dilated, &c. (Coll. Cuming.)

3. *HELIX MICANS*, Pfr. *Hel. testá imperforatá, globosá, tenui, fragili, striatula, lineis confertissimis obsolete decussatá, diaphaná, albidá; spirá parvulá; anfractibus 4 pliniusculis, rapidè accrescentibus, ultimo inflato; columellá tenui, intrante, excavatá; aperturá rotundato-lunari; peristomate simplice, recto, margine dextro antrorsum subarcuato.*

Diam. 28, alt. 19 mill.

Found at S. Juan, province of Cagayan, island of Luzon, on bushes, by H. Cuming, Esq.

This shell might easily be taken for an enormous species of *Vitrina*.

4. *HELIX FORBESII*, Pfr. *Hel. testá umbilicatá, discoideá, tenui, obliquè confertim striatá, unicolore rufá; spirá planiusculá; anfractibus 5 convexis, ultimo basi convexiore, anticè vix descendente, obtusè angulato, supernè obsolete impresso; umbilico magno, spirali; aperturá perobliquá, rotundato-lunari; peristomate simplice, acuto, albedo-carneo, intus subincrassato, margine supero latè expanso, basali reflexo, columellari subdilato.*

Diam. 41, alt. 14 mill.

Locality unknown. (Coll. Walton.)

5. *HELIX RUBICUNDA*, Pfr. *Hel. testá perforatá, depressè turbinatá, rugoso-striatá, obsolete et minutissimè granulatá, subepidermide corné, deciduá rubicundá; anfractibus 5½ subplanulatis, ultimo medio obtusè angulato, basi convexiore; aperturá obliquè lunari; peristomate simplice, recto, margine dextro antrorsum subdilato, columellari dilatato, reflexo, perforationem semi-occultante.*

Diam. 27, alt. 15 mill.

Locality unknown. (Coll. Walton.)

6. *HELIX SAULIÆ*, Pfr. *Hel. testá umbilicatá, globoso-depressá, solidiusculá, obliquè striatá, fulvidá, medio fasciá unicá albá, utrinque rufo-marginatá ornatá; spirá brevi, obtusá; anfractibus 4 vix convexiusculis, ultimo basi subplanato, anticè subitò deflexo, circa umbilicum angustum, pervium rufo; aperturá perobliquá, lunato-ovali; peristomate breviter reflexo, marginibus conniventibus, callo tenui junctis, columellari castaneo, valdè dilatato, umbilicum ferè occultante.*

Diam. 32, alt. 20 mill.

Locality unknown. (Coll. Cuming. et Saul.)

7. *HELIX RHOMBOSTOMA*, Pfr. *Hel. testá imperforatá, trochiformi, tenuiusculá, obliquè striatula, lineis confertissimis concentricis subdecussatá, nitidula, albedo-fulvescente, fasciis castaneis plurimis*

ornatâ; spirâ brevi, conicâ, apice acutâ; anfractibus 5 planiusculis, ultimo acutè carinato, basi vix convexo, anticè parùm deflexo, à latere subcompresso; aperturâ rhombæâ; peristomate violacco, margine supero expanso, superuè impresso, columellari stricto, dilatato, plano, adpresso.

Diam. 28, alt. 15 mill.

Locality unknown. (Coll. Saul. et Metcalf.)

8. *HELIX PLANISSIMA*, Pfr. *Hel. testâ umbilicatâ, depressissimâ, lenticulari, tenui, utrinque obliquè rugoso-costatâ, albidd, subtilis interdum corneo-fasciatâ; anfractibus 5½ convexiusculis, acutè carinatis (carinâ compressâ, prominente, serratâ), ultimo anticè vix descendente, basi convexiore, circa umbilicum mediocrem, spiralem subangulato; aperturâ depressâ, angulato-lunari; peristomate simplice, margine basali planè arcuato, reflexo.*

Diam. 11½, alt. 4½ mill.

Locality unknown. (Coll. Walton.)

Similar to *H. amanda*, Rossm., from which it may be distinguished by its thin and flattened shell, its umbilicus, and the peristome not thickened.

9. *HELIX FILICOSTA*, Pfr. *Hel. testâ subobtectè perforatâ, depressoglobosâ, regulariter costatâ (costis filiformibus), tenuiusculâ, carneo-albidâ, lineis fuscis obsoletis cinctâ; anfractibus 4½ convexis, ultimo anticè deflexo; aperturâ lunato-orbiculari; peristomate acuto, intus subincrassato, labiato, marginibus conniventibus, callo introrsum diffuso roseo junctis, dextro vix expanso, columellari dilatato, reflexo, roseo.*

Diam. 14, alt. 9 mill.

Locality unknown. (Coll. Saul.)

10. *HELIX RETIFERA*, Pfr. *Hel. testâ umbilicatâ, obtusè trochiformi, striato-plicatulâ, lineis nonnullis concentricis elevatis reticulatâ, carinatâ, diaphanâ, pallidè corned; spirâ elevatâ, obtusâ; anfractibus 6½ planiusculis, ultimo basi subplanulato, striato; umbilico mediocri, pervio; aperturâ depressâ, securiformi; peristomate simplice, acuto, margine supero brevi, basali planè arcuato.*

Diam. 7, alt. 4 mill.

Locality unknown. (Coll. Metcalf.)

11. *BULIMUS GRAYANUS*, Pfr. *Bul. testâ gracili, turratâ, solidulâ, longitudinaliter subtilissimè striatâ et lucis impressis spiralibus subdecussatâ, cinnamomed; spirâ turratâ, apice valdè attenuatâ; anfractibus 6 vix convexiusculis, ultimo ⅔ longitudinis subæquante, anticè deflexo, soluto, dorso et basi carinato, lateribus scrobiculato; aperturâ angustâ, oblongâ, basi caualiculatâ; peristomate simplice, undique expanso, dentibus 7 marginem non attingentibus armato; 3 in latere dextro, 4 in sinistro, summo tuberculiformi, secundo valido, lamelliformi.*

Long. 35, diam. 11 mill.

Locality, Brazils.

Nearly allied to *Bul. odontostoma*, Sow., but quite distinct from the two varieties figured by Férussac. (Coll. Cuming.)

12. *BULIMUS COARCTATUS*, Pfr. *Bul. testá rimato-perforatá, ovato-acutá, solidá, albidd, lineis interruptis, fuscis cingulatá; spirá conicá, acutá; anfractibus 6½ planulatis, ultimo convexiore, spiram æquante; aperturá angustá, oblongá, coarctatá; columellá incrassatá, tuberculatá; peristomate latè expanso, margine dextro introrsum incrassato, acutè prominente, medio sinuolato, cum columellari dilatato, reflexo, patente angulatim juncto.*

Long. 34, diam. 17 mill.

Locality unknown.

Nearly allied to *B. signatus*, Desh.

13. *BULIMUS DESHAYESII*, Pfr. *Bul. testá umbilicatá, turritá, solidá, striatula, violascenti-albá, strigis et maculis violascenti-fuscis irregulariter signatá; suturá subcrenulatá; anfractibus 9 vix convexiusculis, ultimo ⅓ longitudinis subæquante; columellá subrectá; aperturá ovali, intus violacéá; peristomate simplice, recto, margine columellari dilatato, fornicatim reflexo, rimam umbilicarem non occultante.*

Long. 45, diam. 15 mill.

Locality unknown. (Coll. Cuming.)

14. *BULIMUS THOMPSONII*, Pfr. *Bul. testá imperforatá, ovato-oblongá, solidula, longitudinaliter striatá, fusco-olivacéá; spirá conicá, apice obtusá, rubrá; anfractibus 6, supremis planulatis, purpureo-strigatis, ultimo spiram æquante; suturá albo-marginatá, crenulatá; columellá rectá (non tortá), leviter arcuatá; aperturá oblongo-ovalis, intus lividá; peristomate subincrassato, recto, intus nigro-limbato, marginibus callo castaneo junctis, basali cum columellá basin attingente subangulatim juncto.*

Long. 70, diam. 31 mill.

Locality, Quito. (Coll. Cuming.)

Nearly allied to *B. Taunaysii*.

15. *BULIMUS SIQUIJORENSIS*, Pfr. *Bul. testá imperforatá, ovato-oblongá, tenui, fulvá, epidermide pallide fuscá elegantissimè marmoratá et flammátá; spirá conicá, obtusá, apice nudá, rufescente; anfractibus 6 vix convexiusculis, ultimo spirá vix brevioré, subangulato; columellá subtortá, longitudinaliter biangulatá, introrsum acutá; aperturá oblongo-subpyriformi, intus albidd; peristomate tenui, breviter expanso, margine dextro deorsum dilatato, basali cum columellari angulum obsoletum formante.*

Long. 52, diam. 25 mill.

Locality, island of Siquijor (Philippines). Collected by Mr. Cuming.

16. *ACHATINA SEMISCUPTA*, Pfr. *Achat. testá tenui, ovato-elongatá, longitudinaliter regulariter striatá, fusciscenti-albidd, strigis fulgurantibus rufis pictá; spirá conicá, apice obtusiusculá, lineis confertis concentricis regulariter granulósá; anfractibus 7½ convexiusculis, ultimo spiram subæquante, usque ad peripheriam lineis impressis distantioribus decussato; columellá subrectá, abruptè truncatá; aperturá ovali-acutá; peristomate simplice, recto.*

Long. 55, diam. 23 mill.

Locality, Africa, Loanda, coast of Benguela. (Coll. Cuming.)

17. *ACHATINA RETICULATA*, Pfr. *Achat. testá oblongo-acutá, solidá, ponderosá, longitudinaliter confertim plicatá, sulcis concentricis profundè reticulatá, albidá, castaneo-marmoratá et maculatá; spirá elongatá, acutá, superne minutè granulatá; suturá subcrenulatá; anfractibus 8 parùm convexis, ultimo $\frac{3}{7}$ longitudinis subæquante; columellá crassá, albá, arcuatá, abruptè truncatá; aperturá utrinque attenuatá, oblongo-ovali.*

Long. 160, diam. 70 mill.

Locality, Africa. (Coll. Cuming.)

18. *ACHATINA PAPYRACEA*, Pfr. *Achat. testá ovato-oblongá, tenui, striis longitudinalibus et concentricis obsolete decussatá, diaphaná, fulvá, castaneo obsolete marmoratá; spirá conicá, apice obtusá; suturá marginatá; anfractibus $5\frac{1}{2}$ vix convexiusculis, ultimo spiram vix superante; columellá subrectá, basin aperturæ ferè attingente, obliquè truncatá, lineá purpureá ornatá; aperturá ovali, intus margaritacéá.*

Long. 66, diam. 30 mill.

Locality, banks of the river Nun in Africa. (Coll. Cuming.)

19. *ACHATINA FUSIFORMIS*, Pfr. *Achat. testá ovato-fusiforimi, tenui, longitudinaliter confertim costulatá, lineis transversis minutè reticulatá, fulvidá, saturatius strigatá; spirá conicá, acutiúsculá, apice rubescente; suturá marginatá; anfractibus 7-8 convexiusculis, ultimo spiram paulò superante, basi attenuato; columellá leviter arcuatá, abruptè truncatá, rubellá; aperturá angustá, oblongá; peristomate simplice, repando, margine rubicundo.*

Long. 87, diam. 35 mill.

Locality, mountain of Coban, Vera Cruz, Central America. (Coll. Cuming.)

This species, as well as the next following, may perhaps belong to the genus *Glandina*.

20. *ACHATINA COSTULATA*, Pfr. *Achat. testá ovato-fusiforimi, tenui, longitudinaliter confertim et regulariter costulatá, diaphaná, fulvo-rubellá, strigis parvis saturatioribus ornatá; spirá pyramidalí, acutá; suturá sulco parallelo crenulato-marginatá; anfractibus 8 vix convexiusculis, ultimo spiram vix æquante; columellá subrectá, abruptè truncatá; aperturá oblongá, utrinque attenuatá, intus margaritacéá.*

Long. 72, diam. 31 mill.

Locality, mountains of Quendeu, New Granada. (Coll. Cuming.)

21. *GLANDINA NIGRICANS*, Pfr. *Glan. testá ovato-oblongá, solidiusculá, minutissimè striatuld, nitidissimá, nigricante, strigis remotis angustis fulvis ornatá, basi corneo-luteá; spirá conicá; suturá virenti-marginatá; anfractibus 7 planulatis, ultimo $\frac{3}{5}$ longitudinis æquante; columellá arcuatá, callosá, obliquè truncatá, basin aperturæ non attingente; aperturá angustá, semiovali, intus concolore.*

Long. 35, diam. 16 mill.

Locality, Vera Cruz, in Central America. (Coll. Cuming.)

22. GLANDINA MONILIFERA, Pfr. *Glan. testá fusiformi-ovatá, tenui, pellucidá, regulariter costulato-striatá, costulis in medio anfractús ultimi evanescentibus, fulvo-roseá, lineis remotis rufis pallidè marginatis ornatá; spirá brevi, conicá; suturá eleganter et confer-tim granulosa; anfractibus 7 planiusculis, ultimo $\frac{3}{5}$ longitudinis subequante, ventroso; columellá vix arcuatá, basi abruptè truncatá; aperturá angustá, semiovali.*

Long. 29, diam. $14\frac{1}{2}$ mill.

Locality, mountains of Coban, Vera Cruz, Central America. (Coll. Cuming.)

A number of Birds'-skins from Australia were presented to the Society by Jeremiah Olive, Esq.

The Secretary exhibited to the Meeting a specimen of Sand Grouse, *Tyrhaptés paradoxus*, and five specimens of Mammals (all of which were new to the Society's collection), from the Altai Mountains of Siberia, viz. :—

Meriones opimus,
Aspalax Zokar,
Mustela Altaica,
Dipus Jaculus,
Mygale moschata.

Mr. Gould laid upon the table a series of Terns, and characterized a new species :—

STERNA GRACILIS. *St. summo capite et nuchá posteriore saturatè nigris; lateribus nuchæ et parte inferiore sericeo-albis; pectore et abdomine leviter rosaceis; rostro carnicolore, apice brunneo-nigro; pedibus aureo-fuscis.*

Crown of the head, nape and back of the neck deep black; sides of the neck and all the under surface silky white, with a blush of rosy red on the breast and abdomen; back, wings and tail light grey, becoming darker on the primaries; irides brownish red; bill flesh-colour, except at the tip, where it is washed with blackish brown; feet orange-red.

Total length, 13 inches; bill, $2\frac{1}{8}$; wing, $8\frac{1}{2}$; tail, $6\frac{1}{2}$; tarsi, $\frac{3}{4}$.

Hab. The Houtmann's Abrolhos, off the western coast of Australia.

MICROSCOPICAL SOCIETY.

Oct. 15, 1845.—J. S. Bowerbank, Esq., F.R.S. &c., in the Chair.

A paper by H. Deane, Esq., being a continuation of a former communication, read at the last meeting of the Society, "On Fossil *Xanthidia* found in Chalk," was read.

After a brief summary of the former paper, in which he stated that various species of the genus *Xanthidium* had been found by him in the Folkstone chalk, Mr. Deane went on to state that this discovery, by affording the means of isolating and mounting these bodies in various ways for examination, suggested to him the possibility of ascertaining their true nature. Their minuteness and other obvious